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INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 02/05178

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G06F19/00 A61C17/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G06F A61C A46B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
 EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 784 742 A (MCINNES JAMES CHRISTOPHER ET AL) 28 July 1998 (1998-07-28) the whole document ---	1-13
A	US 6 029 303 A (DEWAN RAMAN N) 29 February 2000 (2000-02-29) abstract; figures column 5, line 42 -column 6, line 6 ---	1
A	WO 01 91603 A (GILLETTE CANADA COMPANY ;CHIANG CASPER WIEN TIEN (US); YANG ANDY () 6 December 2001 (2001-12-06) figures ---	1
P,X	WO 02 071972 A (BRAUN GMBH ;REICK HANSJOERG (DE); TRAWINSKI PETER (DE); HILSCHER A) 19 September 2002 (2002-09-19) the whole document -----	1-22

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

7 February 2003

Date of mailing of the international search report

24/02/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Fouquet, M

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 02/05178

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5784742	A	28-07-1998	AU 714109 B2	16-12-1999
			AU 6285596 A	22-01-1997
			CA 2225698 A1	09-01-1997
			EP 0833594 A1	08-04-1998
			JP 11512938 T	09-11-1999
			WO 9700650 A1	09-01-1997
<hr/>				
US 6029303	A	29-02-2000	NONE	
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WO 0191603	A	06-12-2001	US 6453497 B1	24-09-2002
			AU 5003201 A	11-12-2001
			EP 1265512 A1	18-12-2002
			WO 0191603 A1	06-12-2001
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WO 02071972	A	19-09-2002	DE 10112601 A1	19-09-2002
			WO 02071972 A1	19-09-2002
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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
INTERNATIONAAL OCTROOIBUREAU B.V.
 Attn. Schouten, Marcus, M.
 Prof. Holstlaan 6
 NL-5656 AA Eindhoven
 NETHERLANDS

25 FEB. 2003

SMIL

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year) 24/02/2003	
Applicant's or agent's file reference PHUS010677W0	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/IB 02/ 05178	International filing date (day/month/year) 04/12/2002
Applicant KONINKLIJKE PHILIPS ELECTRONICS N.V.	

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland
 Facsimile No.: (41-22) 740.14.35

14 For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 po nl, Fax: (+31-70) 340-3016	Authorized officer Henriette Jablanovski
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PHUS010677W0	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/ IB 02/ 05178	International filing date (day/month/year) 04/12/2002	(Earliest) Priority Date (day/month/year) 20/12/2001
Applicant KONINKLIJKE PHILIPS ELECTRONICS N.V.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

- ☐ the text is approved as submitted by the applicant.
- ☒ the text has been established by this Authority to read as follows:

TOOTHBRUSH HAVING A BRUSHHEAD PORTION WHICH CONTAINS A MEMORY DEVICE FOR COMMUNICATING WITH A MICROCONTROLLER IN A HANDLE PORTION OF THE TOOTHBRUSH

5. With regard to the abstract,

- ☐ the text is approved as submitted by the applicant.
- ☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

- ☒ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.

1 _____
☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 02/05178

B x III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The toothbrush includes a brushhead portion (12) having a bristle section (16) in the vicinity of a distal end thereof. The toothbrush also includes a handle portion (14), with the brushhead portion being removable from the handle portion. The brushhead includes a memory element (20) therein which contains identification information, in one embodiment, use information for the brushhead, while the handle portion (14) includes a microcontroller (22) which accumulates information concerning use of the brushhead. Electrical communication elements from the memory element and the microcontroller connect together when the brushhead is operatively in place on the handle, providing a data communication capability between the memory element (20) and the microcontroller (22).